

## ABSTRACT OF THE DISCLOSURE

A process for producing an electrode material for a rechargeable lithium battery, comprising the steps of mixing a metal compound (a) of a metal (a') capable of being electrochemically alloyed with lithium, a transition metal compound (b) of a transition metal (b') and a complexing agent (c) with a solvent (d) to obtain a mixed solution, mixing a reducing agent (e) with said mixed solution to obtain a mixture, and oxidizing said reducing agent in said mixture to reduce ion of said metal (a') and ion of said transition metal (b') to obtain an amorphous alloy material capable of being electrochemically alloyed with lithium as said electrode material. An electrode structural body in which said electrode material is used, and a rechargeable lithium battery in which said electrode material is used.

SCANNED, #

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